



## Change Order - Minor Change

Contract Number 009214	Contract Title Yakima River Bridges Cle Elem to Ellensburg EB&WB - Deck Rehab	Federal Aid Number NHPP-0902(450)
Change Order Number 17	Change Description MC-FRP Crack Seal	Date Aug 13, 2019
Region South Central Region	Project Engineer Jerry Wood	Phone Number 509-577-1859
Prime Contractor / Design-Builder Graham Contracting		

- ☒ Ordered by Engineer under the terms of Section 1-04.4 of the Standard Specifications or the RFP
- ☐ Change proposed by Contractor / Design-Builder

### Change Description

#### Description:

This change order provides for sealing existing cracks leaking moisture beneath the 90/154N bridges in areas where FRP will be installed.

#### Materials:

Material used for sealing cracks shall be AKWASEAL LV (Low Viscosity) hydrophobic polyurethane chemical injection grout.

#### Construction Requirements:

AKWASEAL LV shall be installed according to the manufacturer recommendation or as directed by the Engineer.

The contractor shall insure no rebar damage occurs due to drilling.

#### Measurement:

No specific unit of measurement shall apply.

#### Payment:

Payment shall be by force account in accordance with Section 1-09.6 of the Standard Specifications.

#### Contract Time:

There is no change to contract time associated with this change order.



Original Contract Amount	Current Contract Amount	Est. Net Change This C.O.	Est. Revised Contract Amount
\$ 13,999,349.00	\$ 15,150,810.80	\$ 7,908.71	\$ 15,158,719.51

Prime Contractor / Design-Builder  
Signature or Method of Concurrence:

*[Signature]*

Date

9/18/19

Project Engineer's Signature for Execution:

*[Signature]* Jerry Wood, P.E.

Date

9/26/19

Distribution: Copy of Change Order Page & Memorandum Page w/Backup - Project Engineer  
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**Brief Description of Problem / Reason for Entitlement:**

WSDOT and Contractor field staff identified cracks in the underside of the 90/154N bridge on 5/22/19 that were still wet/seeping water from inside the bridge due to a recent rain. FRP could not be completed in these areas due to the wet conditions.

The Contractor proposed the use of AKWASEAL LV (Low Viscosity) hydrophobic polyurethane chemical injection grout., per the manufacturers instructions to repair the cracked areas of the underside of the 154 bridge that are seeping water, to stop the trapped water in the bridge structure from leaking, preventing progress of the FRP installation.

On 6/4/2019 WSDOT HQ Construction and HQ Bridge evaluated the sealer product and approved the use of this material.

**Justification of Cost:**

This is added work therefore the Contractor is entitled to compensation.

The Project Office has developed a Independent Engineers Estimate (IEE) for this work and determined an estimated cost of \$7,492.43.

It was unknown if this product would be effective, and the Contractor and the Project Engineer agreed to track this work by force account in accordance with Section 1-09.6 of the Standard Specifications.

\$7,908.71 of force account, including applicable markups, was calculated by the Project Office and shall be full payment for the work described.

Calculated By Jerry Wood			Date Aug 13, 2019		Checked By P. Crane			Date Aug 13, 2019		
Inspector J. Harris / C. Peyser			Date Aug 13, 2019		Work Started Jun 6, 2019			Work Completed Jun 11, 2019		
Item No.	Item	Group	Date	Unit	Quantity	RAM/QPL	Ledger no.	Post	Ckd	Est. No.
73	MINOR CHANGE	03	8/13/2019	L.S.	7,908.71	N/A	655	DKM 7-26-19	9/26/19	17

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